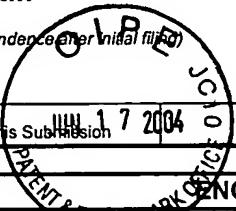


**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission **17**

Application Number	10/816,197
Filing Date	March 31, 2004
First Named Inventor	DESILETS, CHARLES S.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	021356-000320US

**ENCLOSURES (Check all that apply)**

- Fee Transmittal Form
 Fee Attached
 Amendment/Reply
 After Final
 Affidavits/declaration(s)
 Extension of Time Request
 Express Abandonment Request
 Information Disclosure Statement
 Certified Copy of Priority Document(s)
 Response to Missing Parts/ Incomplete Application
 Response to Missing Parts under 37 CFR 1.52 or 1.53

- Drawing(s)
 Licensing-related Papers
 Petition
 Petition to Convert to a Provisional Application
 Power of Attorney, Revocation Change of Correspondence Address
 Terminal Disclaimer
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- After Allowance Communication to Group
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 Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
 Proprietary Information
 Status Letter
 Other Enclosure(s) (please identify below):
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 PTO/SB/08A and /08B Form
 83 Reference Copies

Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Towpsend and Townsend and Crew LLP James M. Heslin	Reg. No. 29,541
Signature		
Date	6/11/04	

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Date	6-11-04

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On 6-11-04

TOWNSEND and TOWNSEND and CREW LLP.

By: Edward Masinas
Edward Masinas

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of:

CHARLES S. DESILETS et al.

Application No.: 10/816,197

Filed: March 31, 2004

For: VORTEX TRANSDUCER

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

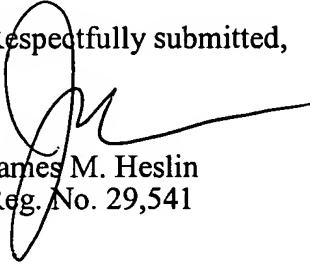
Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,


James M. Heslin
Reg. No. 29,541

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60236692 v1

Substitute for form 1449A/PTO			Complete if Known	
			Application Number	10/816,197
			Filing Date	March 31, 2004
			First Named Inventor	DESILETS, CHARLES S.
			Art Unit	Unassigned
			Examiner Name	Unassigned
Sheet	1	of	3	Attorney Docket Number
			021356-000320US	

U.S. PATENT DOCUMENTS+				
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	AA	US-2002/0128592	09/12/2002	Eshel
	AB	US-2003/0083536	05/01/2003	Eshel et al.
	AC	US-2004/0039312	02/26/2004	Hillstead et al.
	AD	US-4,002,221	01/11/1977	Buchalter
	AE	US-4,059,098	11/22/1977	Murdock
	AF	US-4,211,949	07/08/1980	Brisken et al.
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	AH	US-4,326,418	04/27/1982	Pell, Jr.
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	AM	US-4,556,066	12/03/1985	Semrow
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	AR	US-5,143,063	09/01/1992	Fellner
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	AT	US-5,301,660	04/12/1994	Rattner
	AU	US-5,352,301	10/04/1994	Panchanathan et al.
	AV	US-5,382,286	01/17/1995	Fanning et al.
	AW	US 5,419,327	05/30/1995	Rohwedder et al.
	AX	US 5,434,208	07/18/1995	Batelaan et al.
	AY	US 5,476,438	12/19/1995	Edrich et al.
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	BA	US 5,505,206	04/09/1996	Waloch
	BB	US 5,526,815	06/18/1996	Granz et al.
	BC	US 5,568,810	10/29/1996	Hamers et al.
	BD	US 5,623,928	04/29/1997	Wright et al.
	BE	US 5,626,554	05/06/1997	Ryaby et al.
	BF	US 5,669,150	09/23/1997	Guerdin et al.
	BG	US 5,676,159	10/14/1997	Navis
	BH	US 5,738,098	04/14/1998	Brock-Fisher et al.
	BI	US 5,738,635	04/14/1998	Chapelon et al.
	BJ	US 5,755,753	05/26/1998	Knowlton
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	BL	US 5,820,623	10/13/1998	Ng
	BM	US 5,871,446	02/16/1999	Wilk
	BN	US 5,938,608	08/17/1999	Bieger et al.
	BO	US 5,938,922	08/17/1999	Fulk, Jr. et al.
	BP	US 6,039,689	03/11/2000	Lazzi

Examiner Signature	Date Considered
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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete If Known			
				Application Number		10/816,197	
				Filing Date		March 31, 2004	
				First Named Inventor		DESILETS, CHARLES S.	
				Art Unit		Unassigned	
				Examiner Name		Unassigned	
Sheet	2	of	3	Attorney Docket Number		021356-000320US	

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BQ	US 6,039,694		03/21/2000	Larson et al.	
BR	US 6,071,239		06/06/2000	Cribbs et al.	
BS	US 6,085,749		07/11/2000	Wardle et al.	
BT	US 6,113,558		09/05/2000	Rosenschein et al.	
BU	US 6,142,748		11/07/2000	Harris et al.	
BV	US 6,152,137		11/28/2000	Schwartz et al.	
BW	US 6,217,515		04/17/2001	Yamakawa et al.	
BX	US 6,233,476		05/15/2001	Strommer et al.	
BY	US 6,261,249		07/17/2001	Talish et al.	
BZ	US 6,264,605		07/24/2001	Scirica et al.	
CA	US 6,302,848		10/16/2001	Larson et al.	
CB	US 6,306,146		10/23/2001	Dinkler	
CC	US 6,366,831		04/02/2002	Raab	
CD	US 6,419,648		07/16/2002	Vitek et al.	
CE	US 6,423,077		07/23/2002	Carol et al.	
CF	US 6,488,639		12/03/2002	Ribault et al.	
CG	US 6,506,171		01/14/2003	Vitek et al.	
CH	US 6,554,826		04/29/2003	Deardorff	
CI	US 6,561,389		05/13/2003	Earle	
CJ	US 6,575,906		06/10/2003	Schembri, Jr. et al.	
CK	US 6,607,498		08/19/2003	Eshel	
CL	US 6,613,004		09/02/2003	Vitek et al.	
CM	US 6,618,620		09/09/2003	Freundlich et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
CN	GB	820814		09/30/1959	Univ. Illinois		<input type="checkbox"/>

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/816,197
(use as many sheets as necessary)				Filing Date	March 31, 2004
				First Named Inventor	DESILETS, CHARLES S.
				Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	3	of	3	Attorney Docket Number	021356-000320US

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	CO	AYME et al., Occurance of transient cavitation in pulsed swatooth ultrasonic fields <i>J. Acoust. Soc. Am.</i> (1988) 84(5):1598-1605.			
	CP	BILLARD et al., Effects of Physical Parameters on High Temperature Ultrasound Hyperthermia, <i>Ultrasound in Med. & Biol.</i> (1990) 16(4):409-420.			
	CQ	CAIN et al., Concentric-Ring and Sector-Vortex Phased-Array Applicators for Ultrasound Hyperthermia, <i>IEEE Transactions on Microwave Theory and Techniques</i> , (1986) MTT-34(5):542-551.			
	CR	CHEN et al., Mechanisms of Lesion Formation in High Intensity Focused Ultrasound Therapy, <i>2002 IEEE Ultrasonics Symposium</i> , (2002) pp. 1443-1446.			
	CS	CLARKE et al., Physical and chemical aspects of ultrasonic disruption of cells <i>J. Acoust. Soc. Am.</i> (1970) 47(2):649-653.			
	CT	FJIELD et al., Design and Experimental Verification of Thin Acoustic Lenses for the Coagulation of Large Tissue Volumes, <i>Phys. Med. Biol.</i> (1977) 42:2341-2354.			
	CU	FJIELD et al., Experimental verification of the sectored annular phased array for MRI guided ultrasound surgery <i>IEEE Ultrasonics Symposium</i> (1996) pp. 1273-1276.			
	CV	FJIELD et al., The Combined Concentric-Ring and Sector-Vortex Phased Array for MRI Guided Ultrasound Surgery, <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> (1997) 44(5):1157-1167.			
	CW	FJIELD et al., In Vivo Verification of the Acoustic Model Used to Predict Temperature Elevations for MRI Guided Ultrasound Surgery, <i>1998 IEEE Ultrasonics Symposium</i> , (1998) pp. 1415-1418.			
	CX	FLYNN et al., A mechanism for the generation of cavitation maxima by pulsed ultrasound <i>J. Acoust. Soc. Am.</i> (1984) 76(2):505-512.			
	CY	FRY, Precision High Intensity Focusing Ultrasonic Machines for Surgery, <i>From the Biophysical Research Laboratory, College of Engineering, University of Illinois, Urbana, Illinois</i> , (1958) pp. 152-156.			
	CZ	FRY et al., Threshold ultrasonic dosages for structural changes in the mammalian brain <i>J. Acoust. Soc. Am.</i> (1970) 48(6):1413-1417.			
	DA	ter HAAR, Ultrasound Focal Beam Surgery, <i>Ultrasound in Med. & Biol.</i> , (1995) 21(9):1089-1100.			
	DB	HAND, Ultrasound Hyperthermia and the Prediction of Heating, <i>Ultrasound in Medicine</i> , Duck et al., Eds., Chapter 8, Institute of Physics Publishing, Bristol and Philadelphia, (1998) pp. 151-157.			
	DC	KINNEY, Body contouring with external ultrasound <i>Plastic & Reconstruct. Surg.</i> (1999) 103:728-729.			
	DD	Padmaker, Thresholds and mechanisms of ultrasonic damage to 'organized' animal tissues <i>Symposium on Biological Effects and Characterizations of Ultrasound Sources</i> (1977) Hazzard et al., Eds., pp. 224-239.			
	DE	UMEMURA, The Sector-Vortex Phased Array: Acoustic Field Synthesis for Hyperthermia, <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , (1989) 36(2):249-257.			

Examiner Signature		Date Considered
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